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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/645,418	08/20/2003	David E. Whitehead	1444-0083	8060
David M Muno	7590 · 01/22/2007 it	EXAMINER		
Cook Alex McFarron Manzo Cummings & Mehler Ltd 200 West Adams Street Suite 2850			CORRIELUS, JEAN B	
			ART UNIT	PAPER NUMBER
Chicago, IL 60606			2611	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
2 MONTHS		01/22/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)
	10/645,418	WHITEHEAD ET AL.
Office Action Summary	Examiner	Art Unit
	Jean B. Corrielus	2611
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 8/20/ 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allower closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 1-13 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) 1-13 is/are objected to. 8) Claim(s) are subject to restriction and/or are subject to by the Examine 10) The specification is objected to by the Examine applicant may not request that any objection to the Replacement drawing sheet(s) including the correct subjected to by the Examine are subjected to be subjected to by the Examine are subjected to by the Examine are subjec	wn from consideration. r election requirement. r. a) □ accepted or b) ☒ objected to the discount of the drawing(s) be held in abeyance. See ion is required if the drawing(s) is objected to the drawing(s).	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate

Application/Control Number: 10/645,418

Art Unit: 2611

DETAILED ACTION

Drawings

- 1. Figures 1A-1C and 2 should be designated by a legend such as --Prior Art--because only that which is old is illustrated (see for instance, specification, page 3, lines 32-37). See MPEP § 608.02(g).
- 2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the plurality of electronic instruments, as recited in the claims, must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner,

Page 3

Application/Control Number: 10/645,418

Art Unit: 2611

the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

3. Claims 1-13 are objected to because of the following informalities: the limitations recited in claim 1, lines 4-8, do not appear to be an apparatus type limitations. The claim, as per the preamble is directed to a system. Accordingly, line 4, should start by reciting the actual hardware of the system configured to generate the "encoded time signal". In addition is the recitation "encoded time signal" in the preamble the same as the recitation "generated encoded time signal", recited in the claim body? If so, the body of the claim should be amended in such a way as to be consistent with the preamble or vice versa. The same comment applies to claims 9 and 12. In addition, "IRIG-B" should be expanded, as recited in claims 2, 10 and 13. Claim 12, lines 11-14, after "sampling", "synchronization" should be inserted, respectively, so as to be consistent with the specification. Note that any claim whose base claim is objected, is likewise objected. Appropriate correction is required.

Specification

4. The disclosure is objected to because of the following informalities: page 5, lines 22-23 refers "element "46" as a numerically controlled **counter** (NCO). However, NCO is known in the art as "Numerically controlled **oscillator**".

Appropriate correction is required.

Allowable Subject Matter

Application/Control Number: 10/645,418

Art Unit: 2611

5. Claims 1-13 would be allowable if amended to overcome the objection set forth above.

The following is a statement of reasons for the indication of allowable subject matter: an apparatus is disclosed. The closest prior art, Randall et al US patent No. 6,859,742, discloses similar apparatus. However, Randall does not teach or fairly suggest the limitation of "such that the output sampling synchronization signal occurs at the beginning of each predetermined time period with successive synchronization signals being evenly spaced in the interval between the beginning of each predetermined time", as recited in claims 1, 9 and 12 are neither anticipated nor rendered obvious by Randall et al.

Conclusion

7. This application is in condition for allowance except for the formal matters noted above.

Prosecution on the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean B. Corrielus whose telephone number is 571-272-3020.

Application/Control Number: 10/645,418

Art Unit: 2611

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jean B Corrielus
Primary Examiner
Art Unit 2611

Page 5